

# Serviceunterlage

Produkt-Nr.:  
**885.900-1**

Typ/Privileg-Nr.:  
**DVD-DR1030**

## HEIMKINO-SYSTEM

UTS-Nr.: 999 QUELLE  
Best.Nr.: 8859001/01  
Ger.Bez.: UNIVERSUM HEIMKINO-SYSTEM

GKz: G GERAET  
WGT: 651 MINI-SYSTEME  
KD-Sektor: R RUNDFUNK  
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN  
Klassierung: STK STEREOKOMBINATION  
IFW-FehlerGru.: 205 RDF., VERST., TB., PHONO, CD, CB  
Type/Privileg/Universum.Nr DVD-DR1030  
Beschreibung  
VK-Preis: 599.00

Serviceart: 01 PROPECTIS  
Garantie fuer Kunden 24 Monate  
Sondervereinbarungen: 0 SIEHE SERVICEART

Garantiereparatur 0004063 PROPECTIS GMBH  
Sondervereinbarungen: 0 SIEHE SERVICEART

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Katalog	Seite
Erst 034 HAUPTKATALOG H/W 2003	0000
Letzt 000 NOCH IM AKTUELLEN KATALOG	0000

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Geraete Info:

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Technische Daten:

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Fehler:

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# DVD VIDEO PLAYER

## SERVICE MANUAL

### SPECIFICATIONS

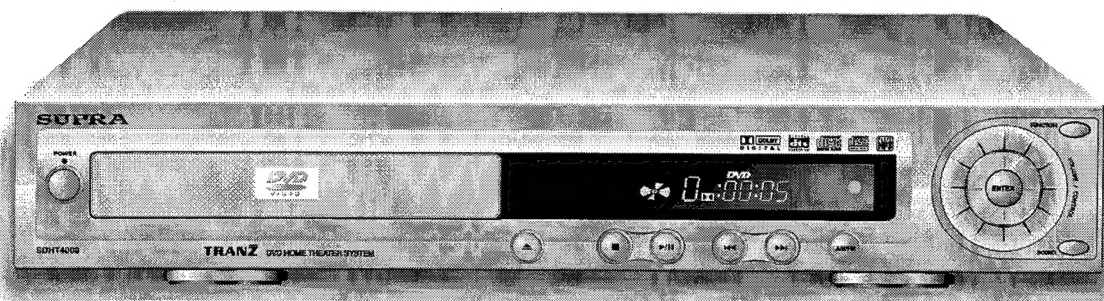
#### DVD VIDEO PLAYER

Power supply	110~120V or 220~240V AC 50/60Hz
Power consumption	76W (120V AC/240V AC)
Mass	4.3kg (9.4lbs)
External dimensions	340 x 67 x 270mm (W x H x D)
Signal system	PAL/NTSC
Laser	Semiconductor laser, wavelength 650 nm (DVD) 780nm (CD)
Frequency range (audio)	40Hz - 20kHz
Signal-to-noise ratio (audio)	More than 100dB (EIAJ)
Audio dynamic range (audio)	More than 90dB (EIAJ)
Harmonic distortion (audio)	0.008%
Wow and flutter	Below measurable level (less than +0.001%(W.PEAK))
Operations	(EIAJ) Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal

#### OUTPUTS

Video outputs	1.0V (p-p), 75Ω, negative sync., RCA jack x 1
S-video outputs	(Y) 1.0V (p-p), 75Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.286V (p-p), 75Ω
Component video output	(Y) 1.0V (p-p), 75Ω, negative sync., RCA jack x 1 (Pb)/(Pr) 0.7V (p-p), 75Ω
Audio output (digital audio)	0.5V (p-p), 75Ω, RCA jack x 1
Audio output (analog audio)	2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L,R) x 2

\* Designs and specifications are subject to change without notice.



## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only. Mains lead must only be changed at a qualified service shop.

### CLASS 1 LASER PRODUCT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear panel.

**CAUTION:** INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

This label is located on the Laser protective housing inside the enclosure.

Don't throw a battery, dispose it as the injurious wastes.

### CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this Compact DVD Home Theater System is harmful to eyes, do not attempt to disassemble the cabinet.

**CAUTION-**  
Laser radiation when open.  
DO NOT STARE INTO BEAM.

Refer servicing to qualified personnel only.

This label is located on the Laser protective housing inside the enclosure.



This symbol is intended to alert the user to the presence of un-insulated (dangerous voltage) within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### CAUTION

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

### Precautions Safety

- This unit is designed to operate under one of the following power supply conditions
  - 110~120V or 220~240V AC, 50/60Hz
- Check that the unit's operating voltage is identical with your local power supply.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the mains as long as it is connected to the mains outlet, even if the unit itself has been turned off.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

### Installing

- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
- Allow adequate air circulation to prevent internal heat buildup.
- Do not place the unit on surfaces (rugs, blankets, etc) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators, or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.

- Do not install the unit in an inclined position. It is designed to operate in a horizontal position only.
- Keep the unit and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the units.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the Compact DVD Home Theater System and cause damage to the lenses. When you first install the unit, or when you move it from a cold to a warm location, wait for about 30 minutes before operating the unit.

## Precautions

### On Safety

- Caution---The use of optical instruments with this product will increase eye hazard.
- Should any solid object or liquid fall into the cabinet, unplug the system and have it checked by qualified personnel before operating it any further.

### On power sources

- If you are not going to use the system for a long time, be sure to disconnect the system from the wall outlet (mains). To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- Should the AC power cord (mains lead) need to be changed, have it done at a qualified service shop only.

### On placement

- Place the system in a location with adequate ventilation to prevent heat build up in the system.
- At high volume, over long periods of time, the cabinet becomes hot to the touch. This is not a malfunction. However, touching the cabinet should be avoided. Do not place the unit in a confined space where ventilation is poor as this may cause overheating.
- Do not block the ventilation slots by putting anything on the system. The system is equipped with a high power amplifier. If the ventilation slots on the top surface are blocked, the unit can overheat and malfunction.
- Do not place the system on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the system in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.

### On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the system. Should this occur, the system may not operate properly. In this case, remove the disc and leave the system turned on for about half an hour until the moisture evaporates.
- When you move the system, take out any discs. If you don't, the disc may be damaged.

### On adjusting volume

- Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is played.

### On cleaning

- Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol.
- If you have any questions or problems concerning your system, please consult your authorized local dealer.

### On cleaning discs

- Do not use a commercially available CD/DVD cleaning disc. It may cause a malfunction.

### On your TV's color

- If the speakers should cause the TV screen to have color irregularity, turn off the TV at once then turn it on after 15 to 30 minutes. If color irregularity should persist, place the speakers further away from the set.

## IMPORTANT NOTICE

**Caution:** This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.



- CD-ROM, Photo CD, DVD Audio and DVD-ROM discs cannot be played on this system.



# DISASSEMBLY

## CAUTION BEFORE STARTING SERVICING

Electronic parts are susceptible to static electricity and may easily be damaged, so do not forget to take a proper grounding treatment as required.

Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screw driver in servicing. Several kinds of screws are used and some of them need special cautions. That is, take care of the tapping screws securing molded parts and fine pitch screws used to secure metal parts. If they are used improperly, the screw holes will be easily damaged and the parts can not be fixed.

## CABINET DISASSEMBLY

### 1. Top Case

1. Release 8 screws (A). (See Fig. 2-1)
2. Lift the top case by holding the back of it, and remove it in the direction of the arrow.

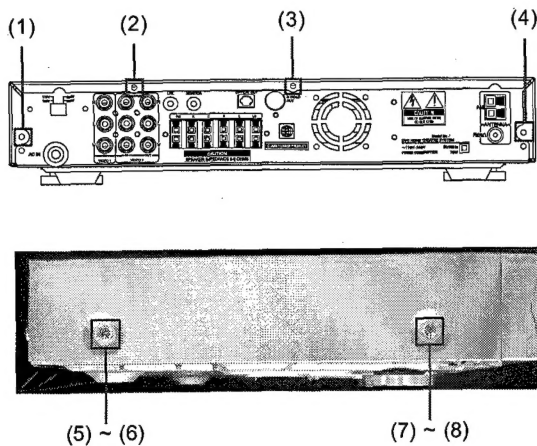


Fig. 2-1

### 2. Tray Door

1. Eject the disc tray.
2. Lift up the tray door in the direction of the arrow.

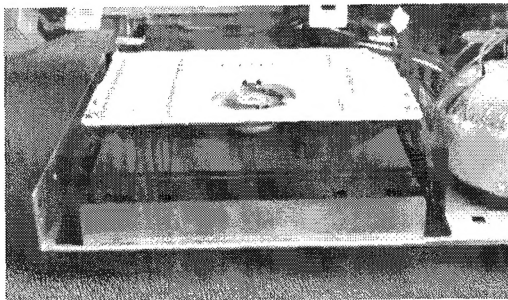


Fig. 2-2

### 3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Pull the front panel toward you while pressing 5 stoppers to disengage, and remove the front panel. (See Fig. 2-3)

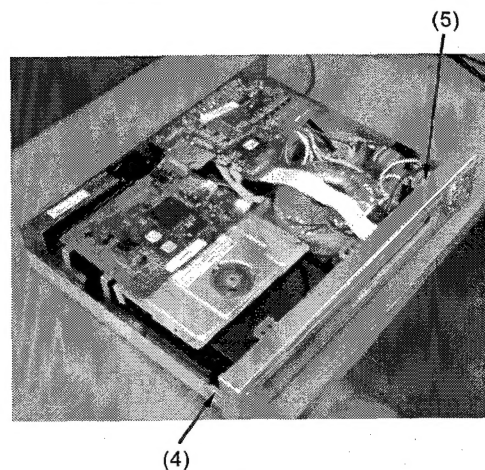
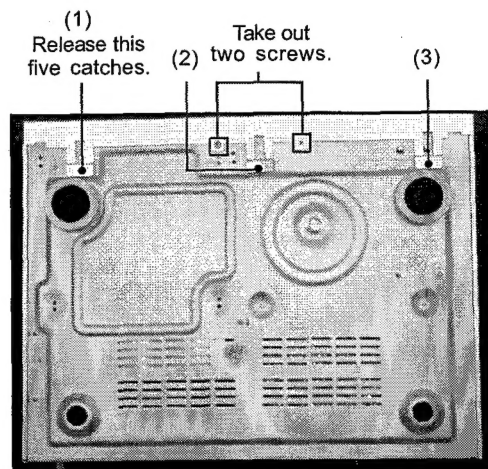


Fig. 2-3

## CIRCUIT BOARD DISASSEMBLY

**Note:** Before removing the main circuit board, be sure to shortcircuit the laserdiode output land.  
After replacing the main circuit board, open the land after inserting the flexible connector.  
(Refer to Mechanism Disassembly)

### 1. Disassemble Main circuit board, Jack circuit board, Power circuit board and MD Ass'y DPM1.

1. Remove the top case. (See Fig. 2-1, 2-4)

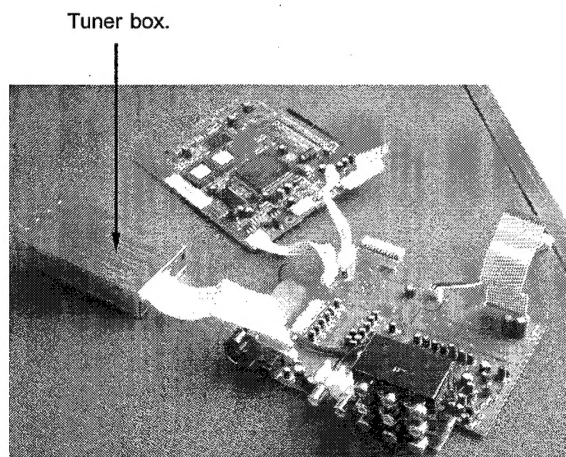


Fig. 2-4

3. Disassemble Main circuit board and Jack circuit board from Main Bracket. (See Fig. 2-6, 2-13)

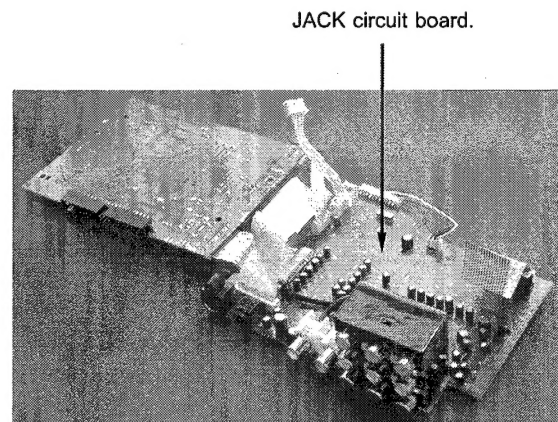
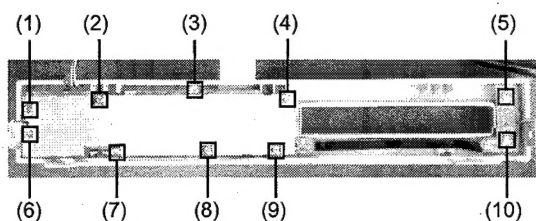
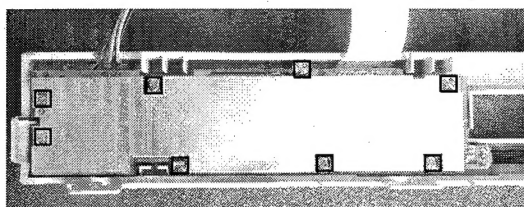


Fig. 2-6

2. Remove 10 screws. (See Fig. 2-5)



\* Ten screws of front panel take out for repairing.



\* Take out eight screws for repairing. (Digitron circuit board.)

Fig. 2-5

4. Take out 2 screws for power standby PWB of assembly. (See Fig. 2-7)

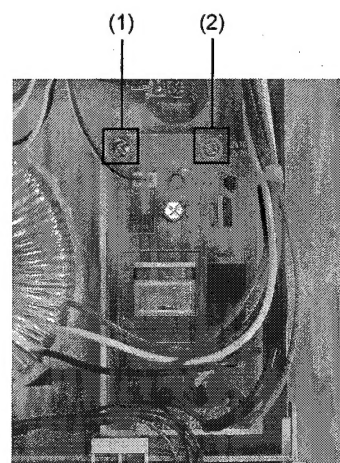
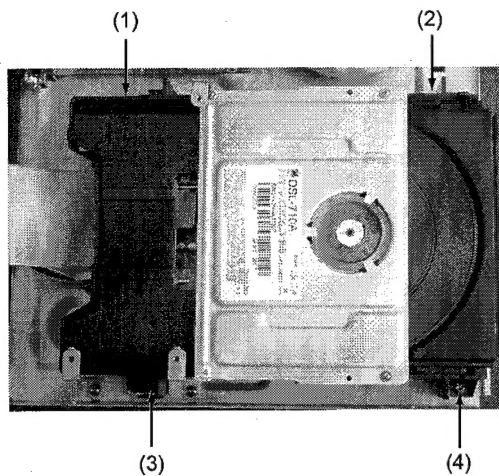


Fig. 2-7

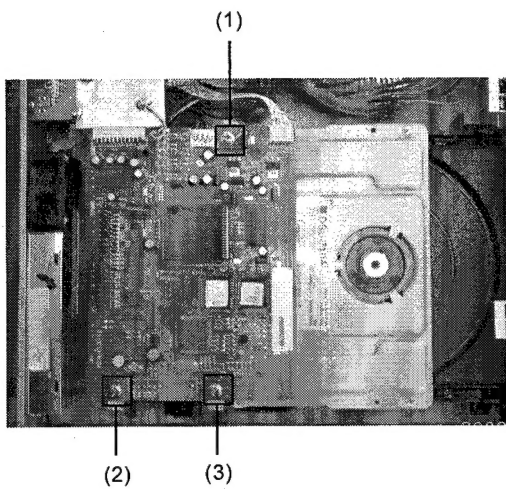
5. Disassemble Main Bracket from Main chassis.  
(See Fig. 2-8)



\* Disassemble bottom case from CD main chassis.

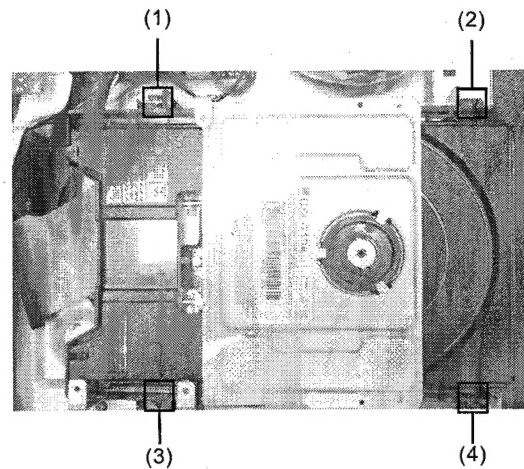
**Fig. 2-8**

6. Take out 3 screws for CD PWB assembly.  
(See Fig. 2-9)



**Fig. 2-9**

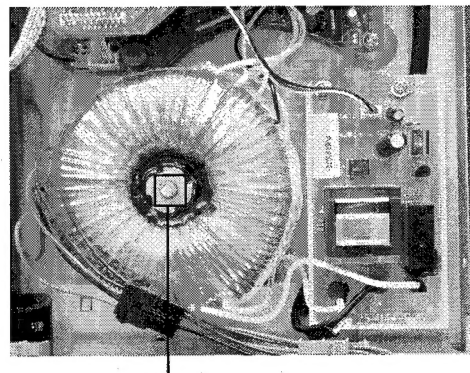
7. Unscrew 4 screws for CD mechanism or assembly.  
(See Fig. 2-10, 2-13)



**Fig. 2-10**

8. Release the other 3 screws.

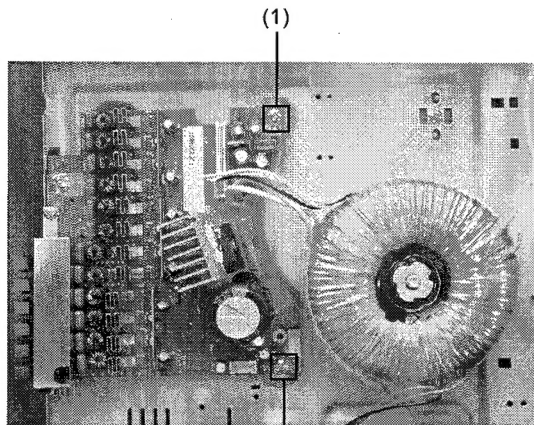
9. One screw for assembly of transformer. (See Fig. 2-11)



Unscrew for take out the transformer.

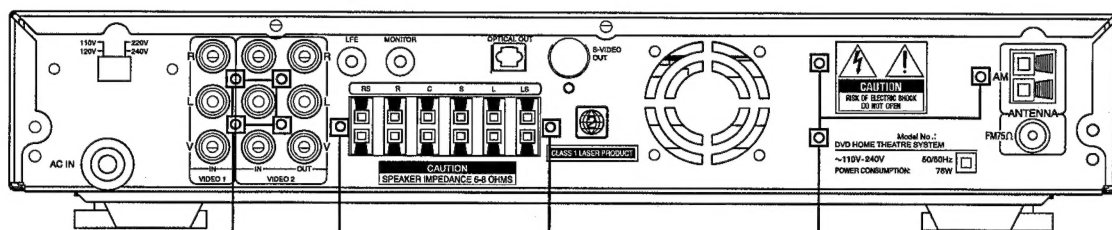
**Fig. 2-11**

10. Disassemble power circuit board from bottom casing. (See Fig. 2-12, 2-13)



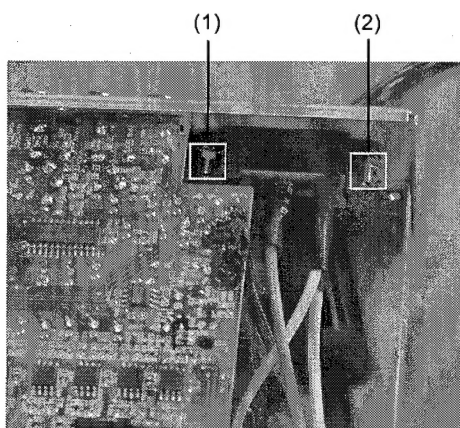
\* (1), (2) : take out screw

**Fig. 2-12**



**Fig. 2-13**

11. Disassemble AC selector switch from rear pannel. (See Fig. 2-14)



\* (1), (2) : take out screw and nut.

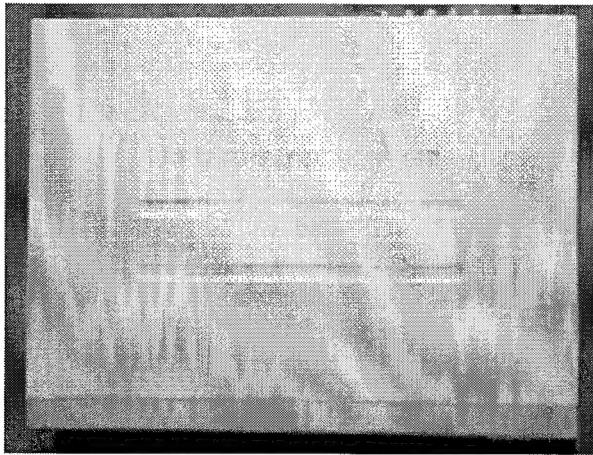
**Fig. 2-14**

## 2. Digitron and Key Circuit Board

1. Remove the front panel. (See Fig. 2-3)
2. Release 8 screws, and remove the digitron circuit board.

## DECK MECHANISM PARTS LOCATIONS

- **Top View(With Tray)**

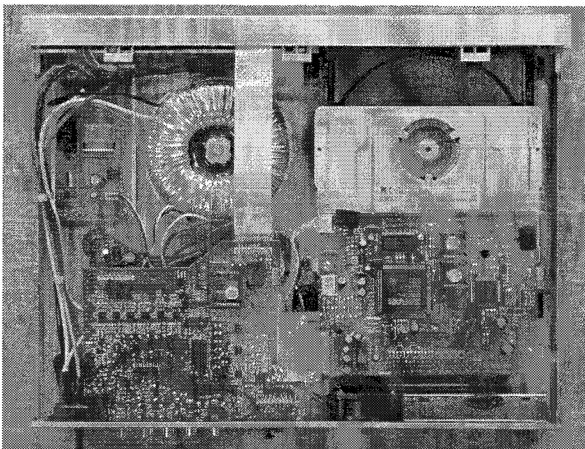


### Note

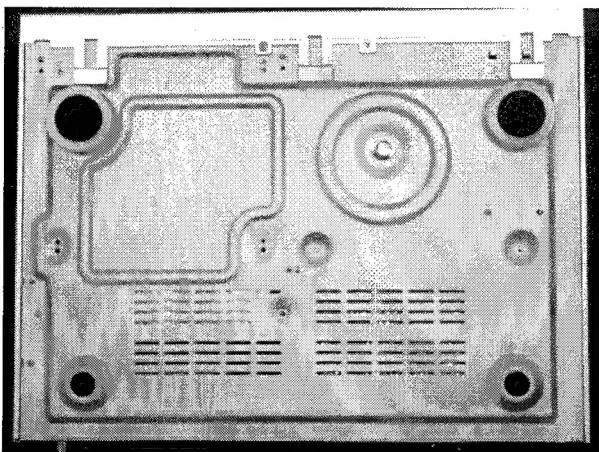
When reassembling, perform the procedure in reverse order.

The "Bottom" on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

- **Top View(without Tray)**

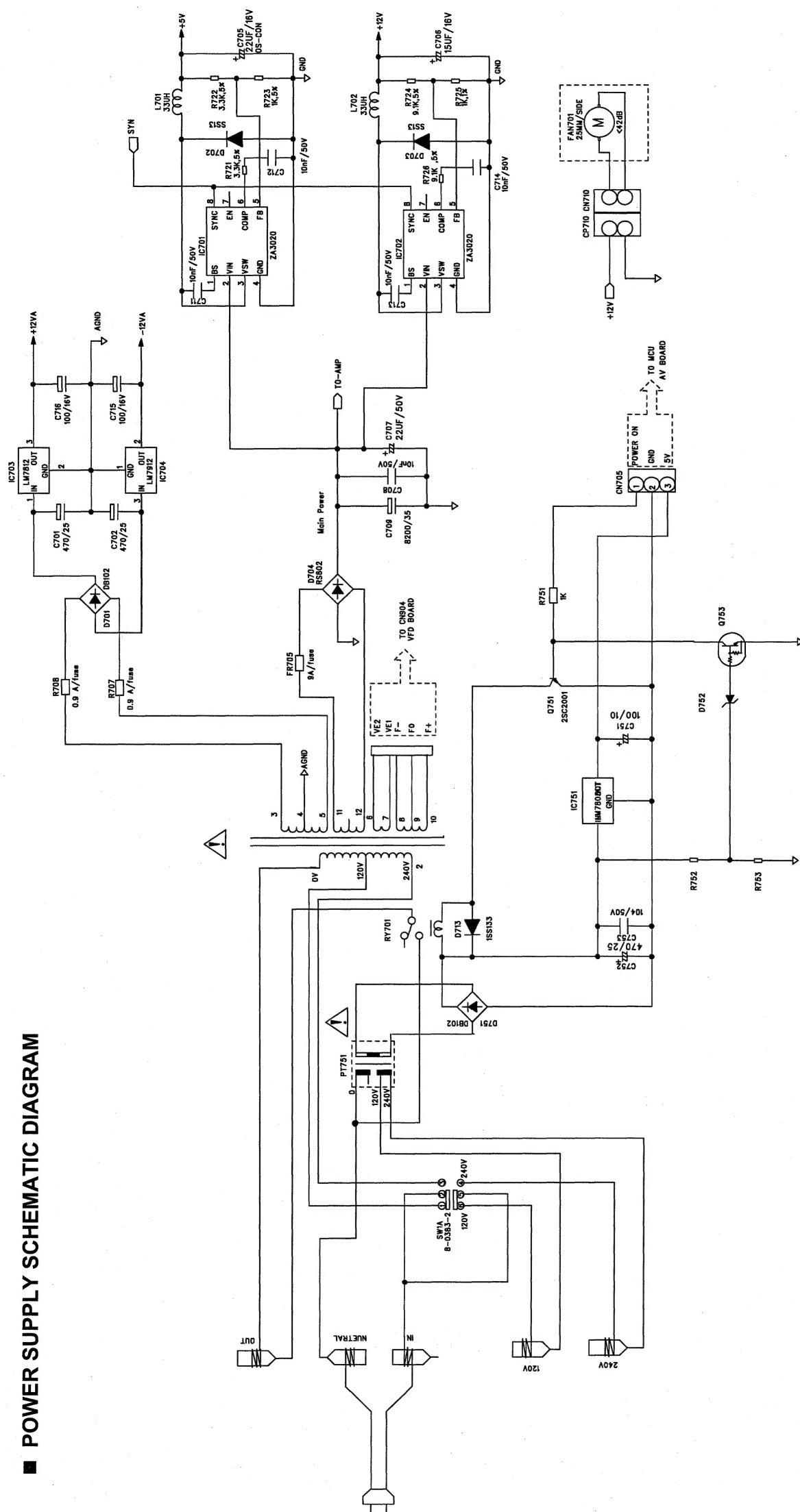


- **Bottom View**

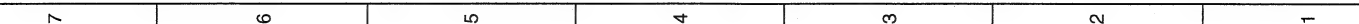




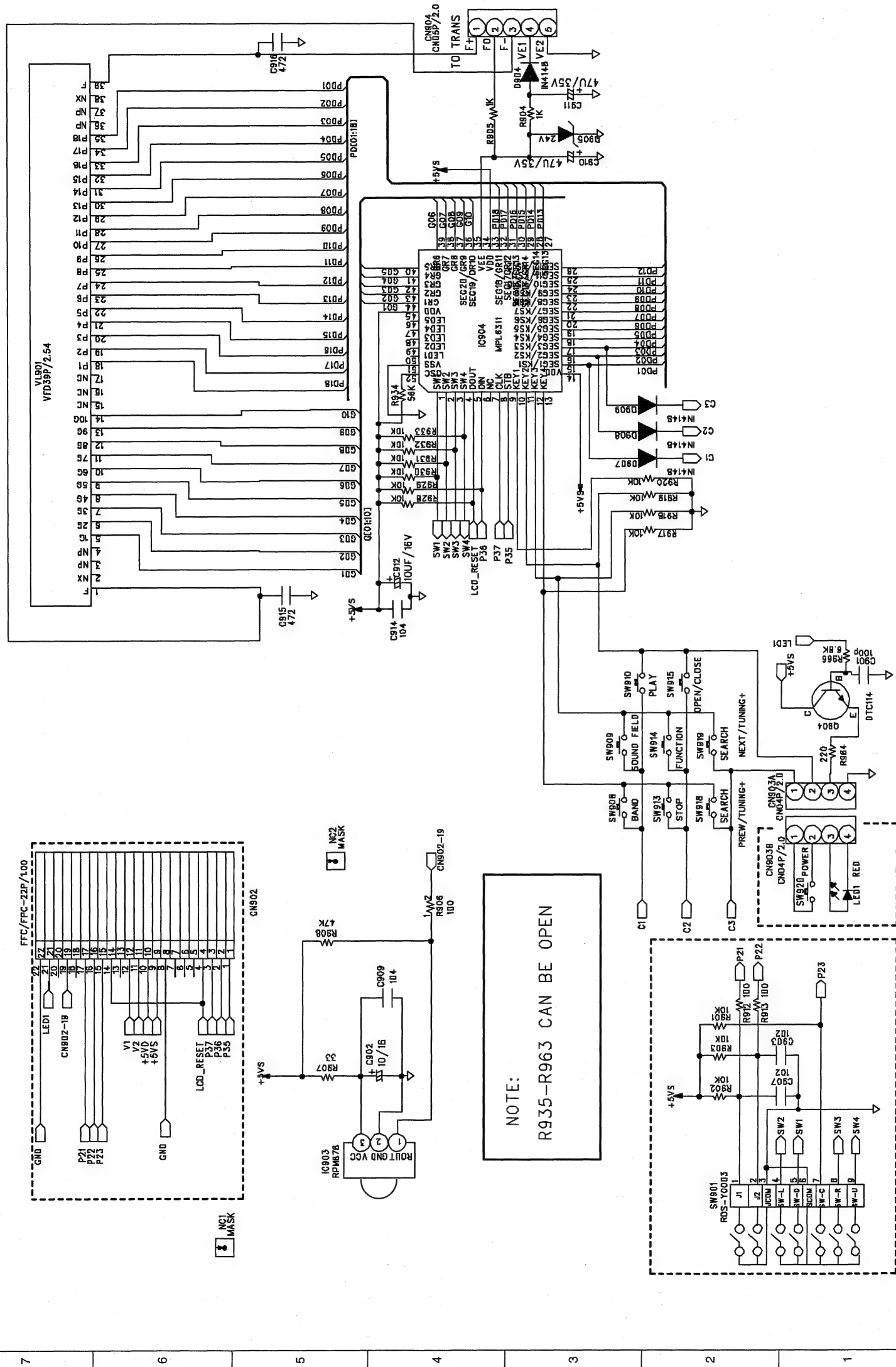
# ■ POWER SUPPLY SCHEMATIC DIAGRAM



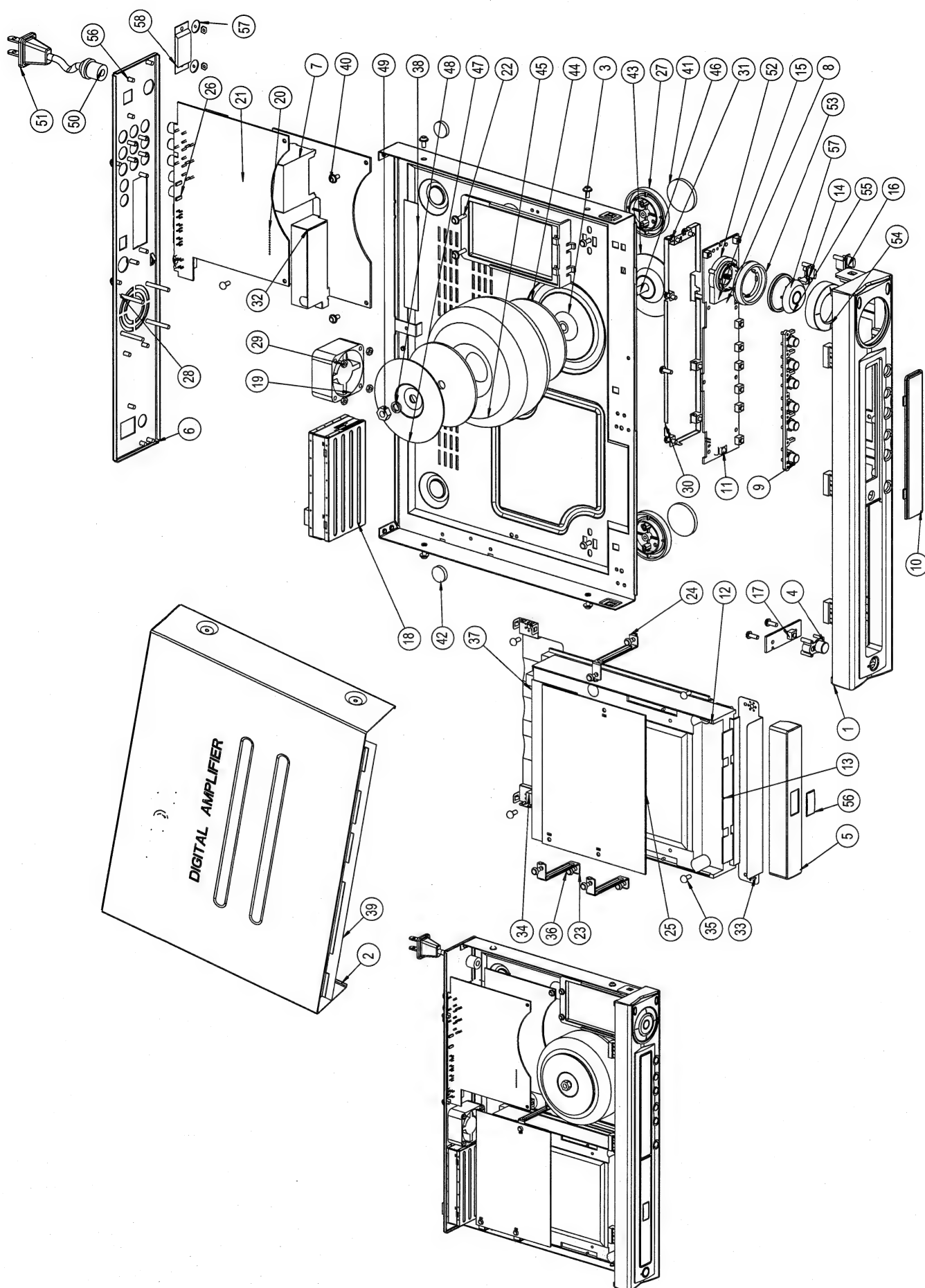




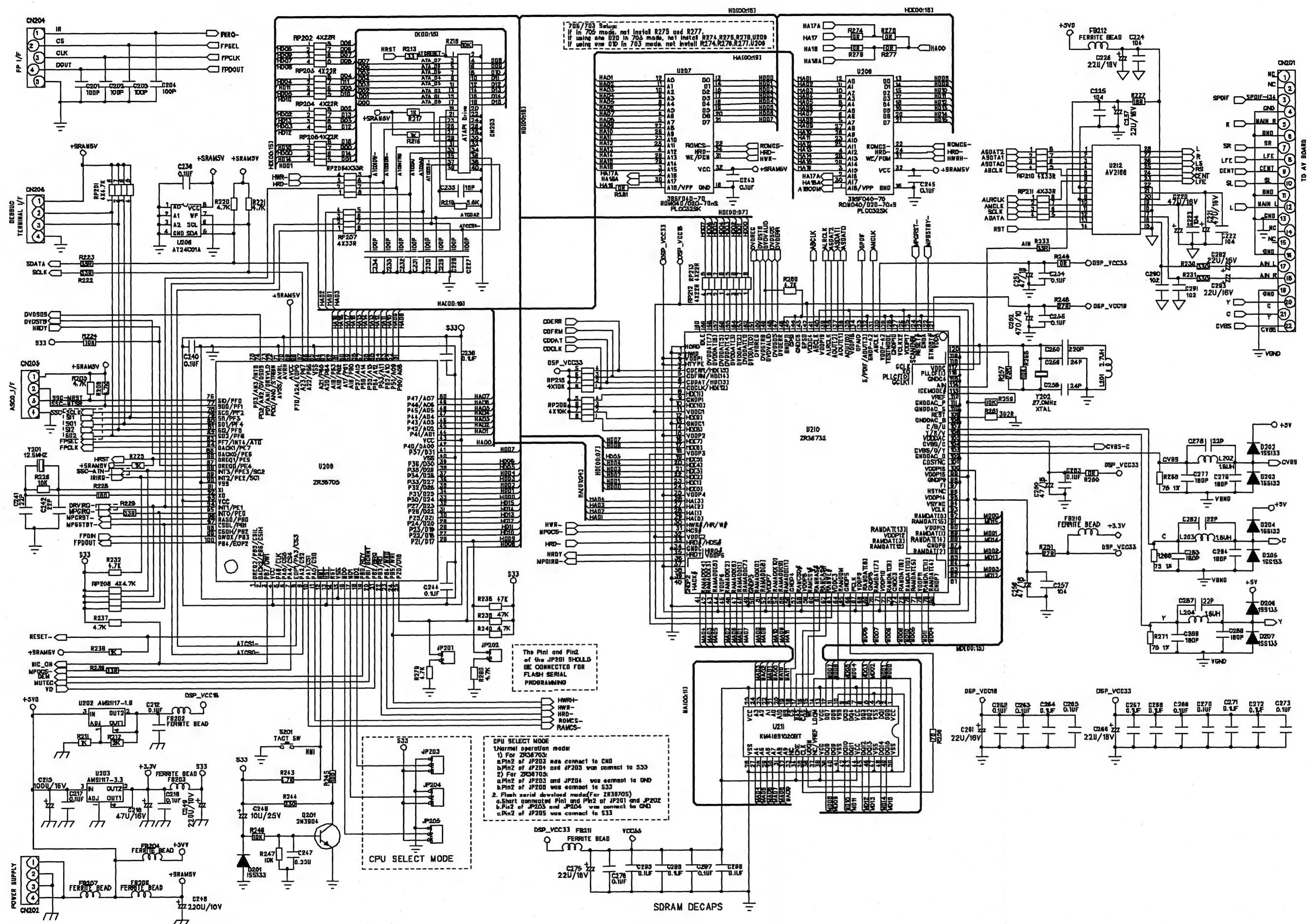
## ■ VFD SCHEMATIC DIAGRAM



# DECK MECHANISM EXPLODED VIEW



## ■ DVD MPEG SCHEMATIC DIAGRAM



The Pin1 and Pin2  
of the JP201 SHOULD  
BE CONNECTED FOR  
FLASH SERIAL  
PROGRAMMING

```

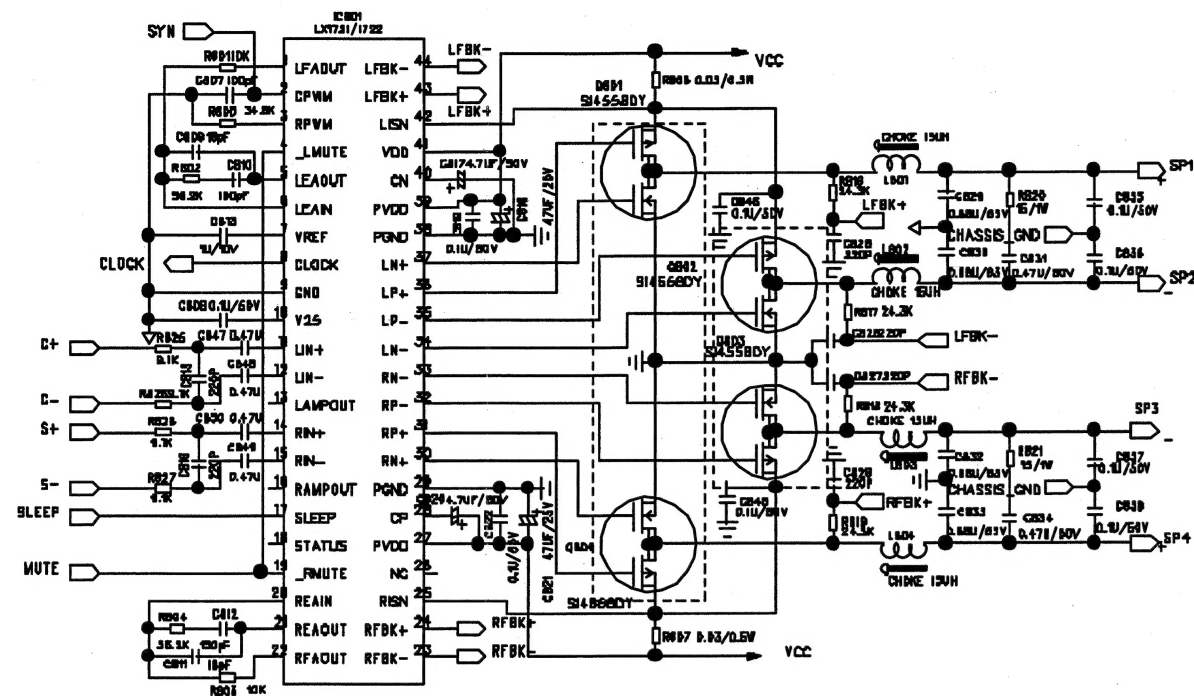
CPU SELECT MODE
Normal operation mode
1) For ZK36703
a)Pin2 of JP203 was connect to GND
b)Pin2 of JP204 and JP203 was connect to 533
2) For ZK36705
a)Pin2 of JP203 and JP204 was connect to GND
b)Pin2 of JP206 was connect to 533
3. Flash serial developed mode(For ZK38705)
a)Short connected Pin1 and Pin2 of JP201 and JP202
b)Pin2 of JP201 was connect to GND
c)Pin2 of JP205 was connect to 533

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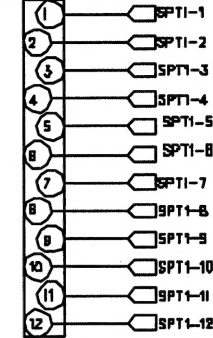
CPU SELECT MODE

SDRAM DECAPS

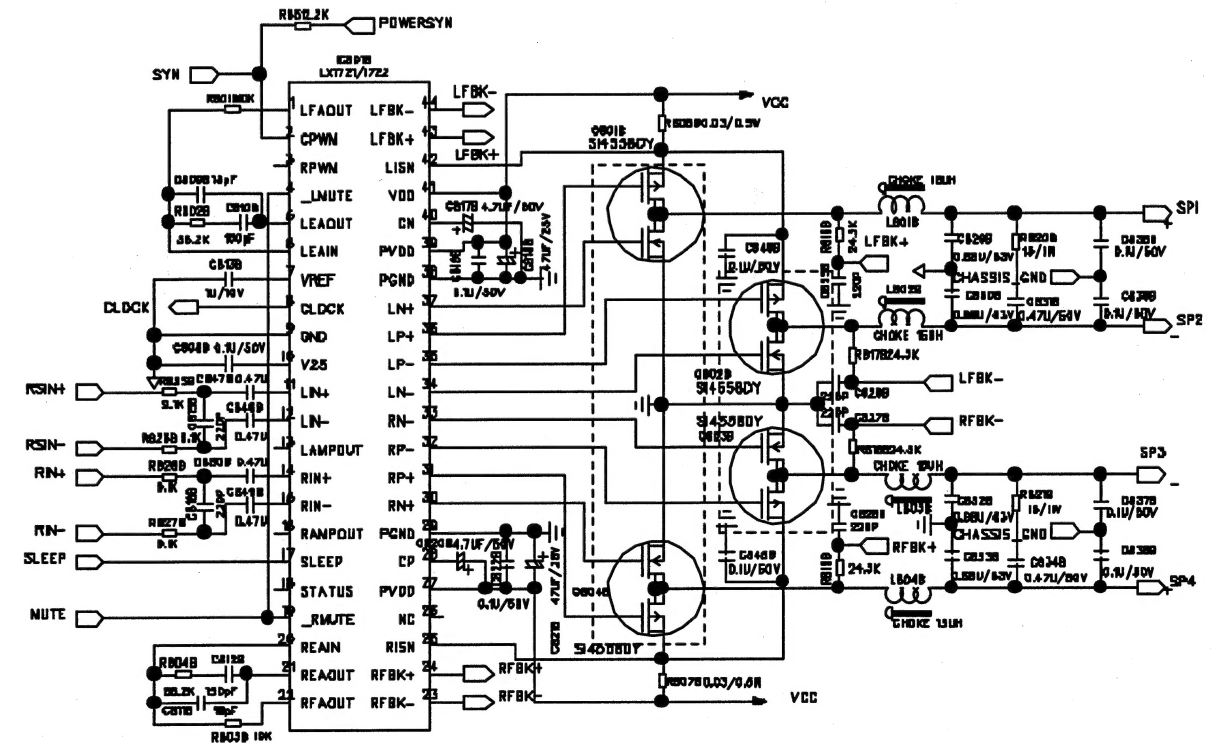
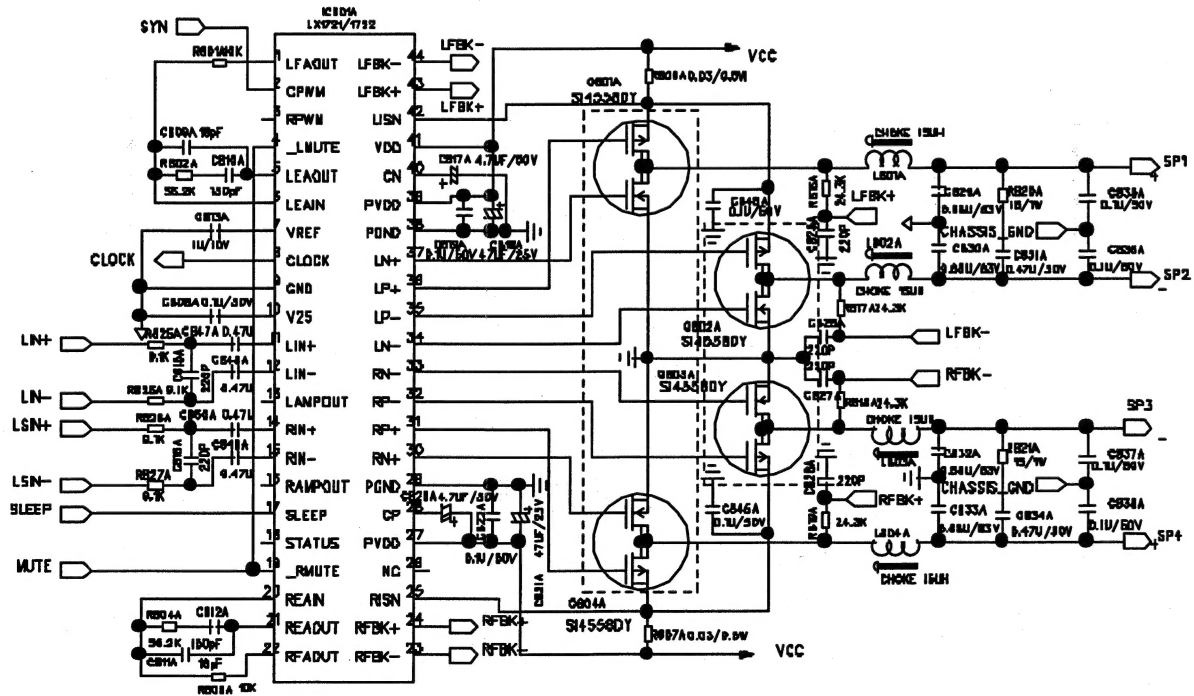
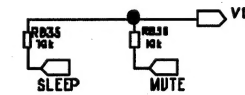
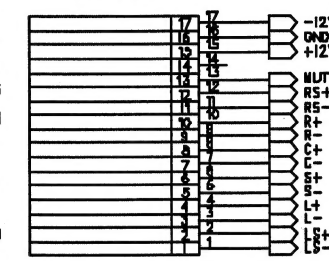
# AMP SCHEMATIC DIAGRAM



CH001  
SPEAKER TERMINAL 8 CHANNEL



CH002  
TO AV PWB



A

B

C

D

E

F

G

H

I

J



## 7



A	B	C	D	E	F	G	H	I	J
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7  
6  
5  
4  
3  
2  
1



# Packing materials and accessories parts list

